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TITLE

FLUID CONDUIT AND PROCESS THEREFOR

ABSTRACT

A conduit such as a nozzle having its surface or a portion of its surface coated with a thin fluid-repellent layer is disclosed. The layer comprises or is produced from a fluorocarbon silane or a substantially aqueous emulsion. The emulsion comprises or is produced from (1) a fluorocarbon silane or its hydrolyzate, (2) water, and (3) optionally a surfactant, a silicon compound, a catalyst, or combinations of two or more thereof where the fluorocarbon silane has the formula R_f -(CH_2) $_p$ -Si $\{$ -(O- CH_2CH_2) $_n$ - OR^1 $\}_3$ and the silicon compound can be a silicate or an organoalkoxysilane; R_f is a C_{3-18} perfluoroalkyl group or combinations of two or more thereof; each R^1 is independently one or more C_{1-3} alkyl groups; p is 2 to 4; and n is 2 to 10.